

Fig. 1

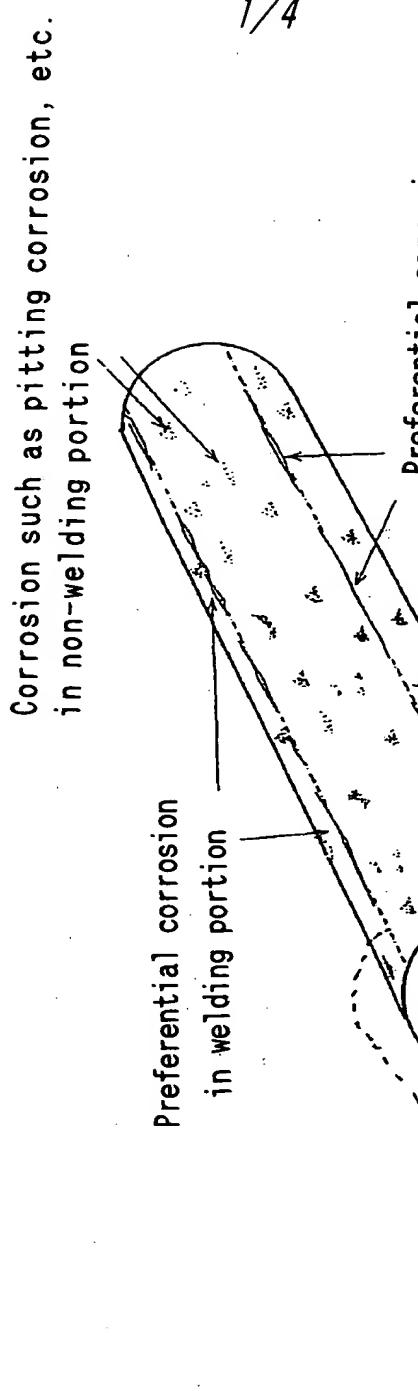


Fig. 2 (A)

Type A

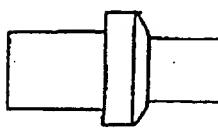


Fig. 2 (B)

Type B

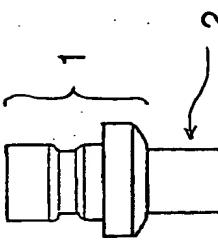


Fig. 2 (C)

Type C

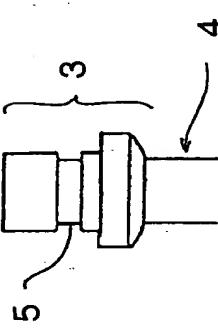
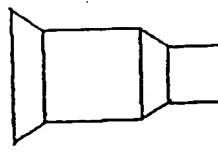


Fig. 2 (D)

Type D



2/4

Punch shaping

Punch shaping

Punch → forming
by rolling

Punch shaping

Punch shaping

3/4

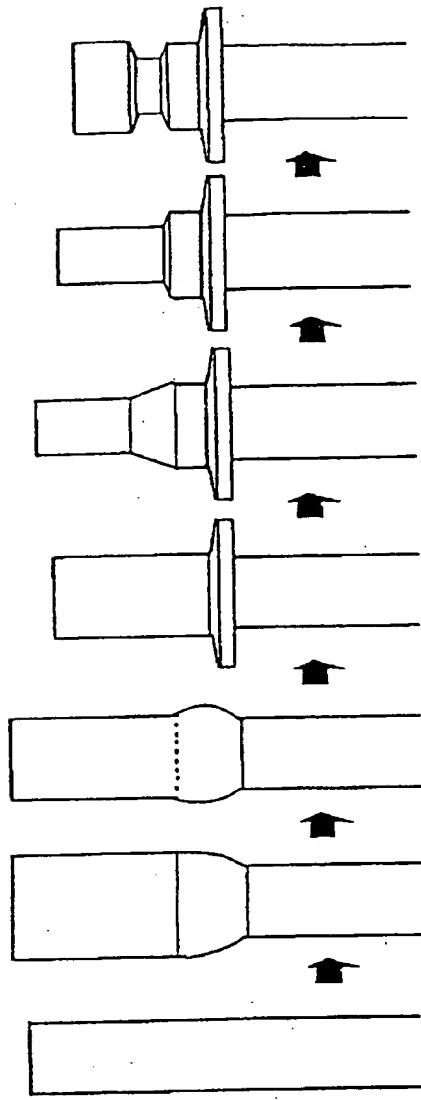


Fig. 3 (A)

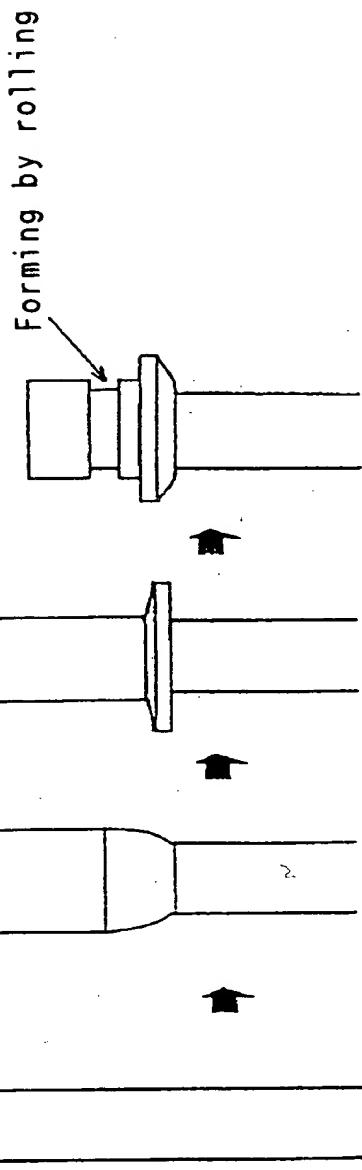
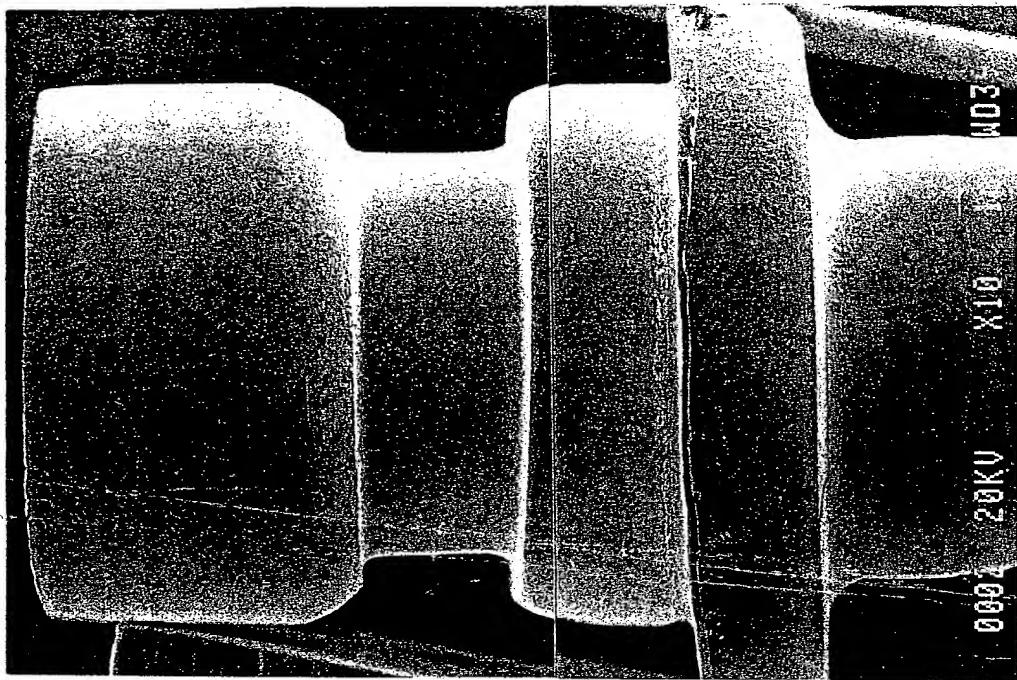


Fig. 3 (B)

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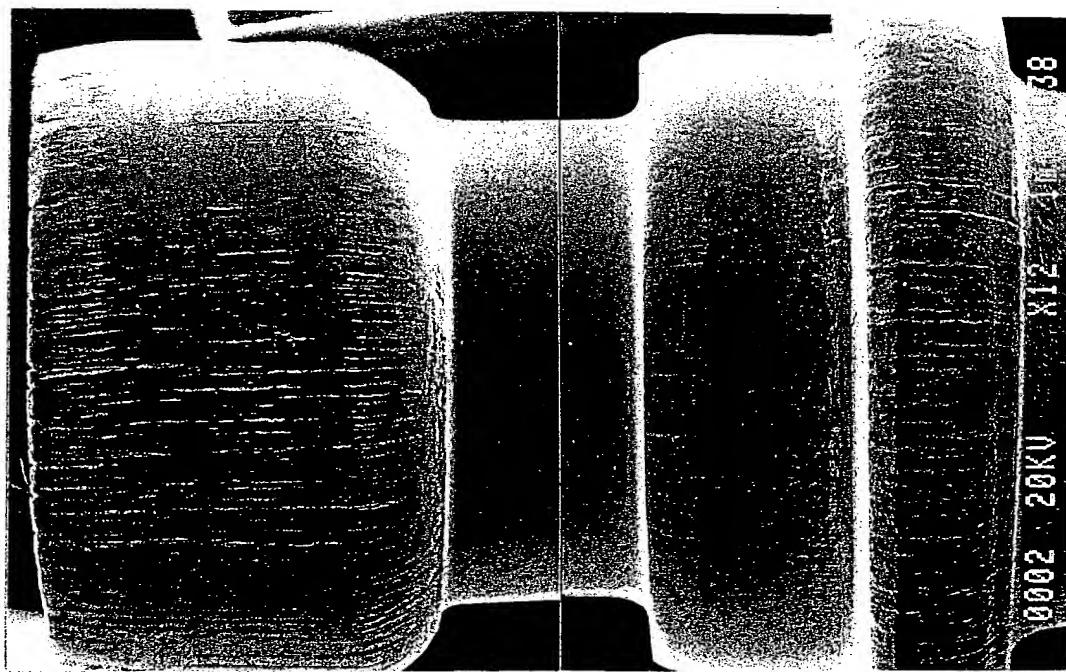
4/4

Fig. 4 (B)



Pipe material of example of the present invention (portion with terminal end processing of type B)

Fig. 4 (A)



Current pipe material
(Prior Art)